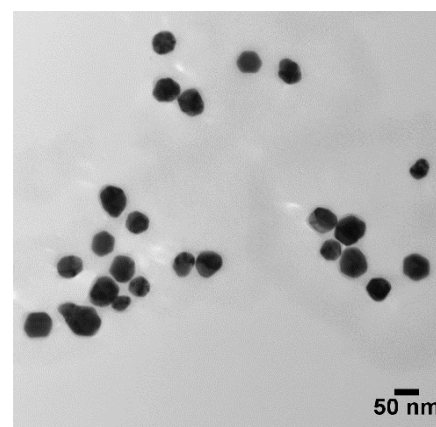
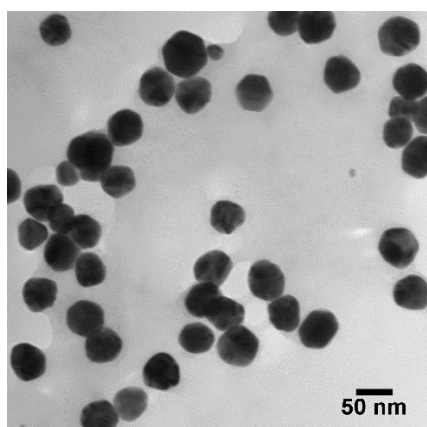
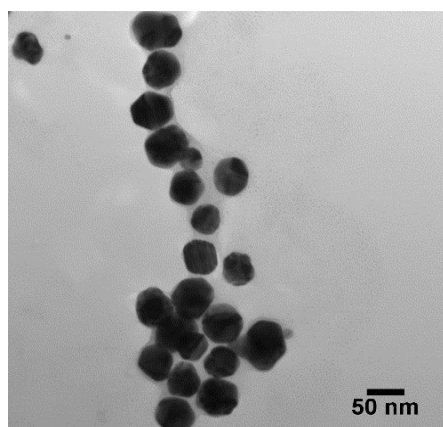


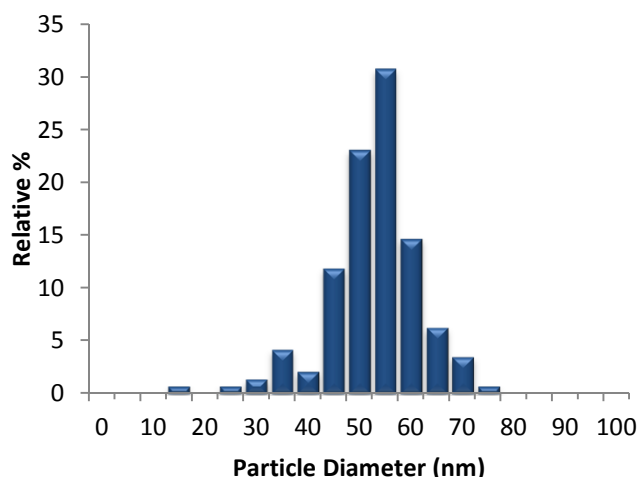
50 nm Silver Nanoparticles, PVP, Econix™

Lot Number: SDM0013

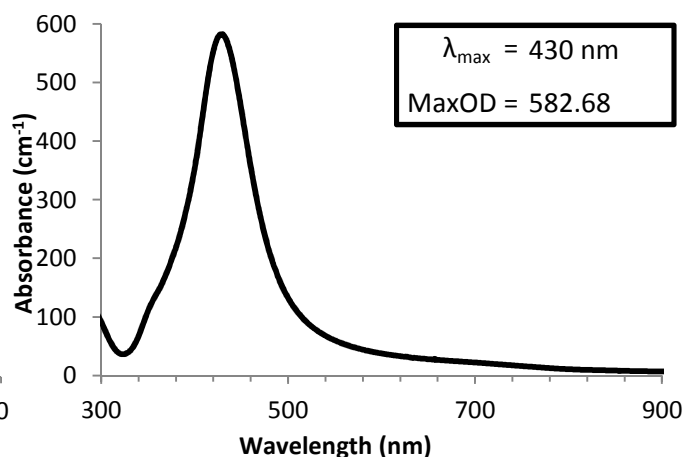
Diameter (TEM):	51 ± 9 nm	Particle Surface:	PVP 40 kDa (Polymer)
Coefficient of Variation:	17.6 %	Solvent:	Milli-Q Water
Mass Concentration (Ag):	5.35 mg/mL	Hydrodynamic Diameter:	86 nm
Particle Concentration (Calc'd):	7.6E+12 particles/mL	Zeta Potential:	-55 mV
Molar Particle Concentration:	1.3E-08 particle # (mol/L)	pH of Solution:	4.6
Surface Area (Calc'd):	10.7 m ² /g		



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope
Mass Concentration:	Thermo Fisher X Series 2 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS
pH:	Horiba - Laqua Twin pH Meter

Shake vigorously before use. Bath sonicate if needed. Storage: 2-8 °C away from light.

DO NOT FREEZE.